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| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/719,356  | 11/21/2003  | Howard Sinkoff       | 7647-03222          | 3305             |
| 7590 10/05/2005<br>BRINKLEY, MCNERNEY, MORGAN, SOLOMON & TATUM LLP<br>SUITE 1900<br>200 EAST LAS OLAS BLVD. |             |                      | EXAMINER            |                  |
|   |             |                      | CRUZ, MAGDA         |                  |
|   |             |                      | ART UNIT            | PAPER NUMBER     |
| FORT LAUDERDALE, FL 33301   |             |                      | 2851                |                  |

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

|  | Application No.  | Applicant(s)   |  |  |  |  |
|--|--|--|--|--|--|--|
| Office Action Comments   | 10/719,356   | SINKOFF, HOWARD  |  |  |  |  |
| Office Action Summary  | Examiner   | Art Unit   |  |  |  |  |
|  | Magda Cruz   | 2851   |  |  |  |  |
| The MAILING DATE of this communication app Period for Reply  | ears on the cover sheet with the c   | orrespondence address  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | N.<br>nely filed<br>the mailing date of this communication.<br>D. (35 U.S.C. § 133). |  |  |  |  |
| Status   |  |  |  |  |  |  |
| <ol> <li>Responsive to communication(s) filed on 20 Jule</li> <li>This action is FINAL.</li> <li>Since this application is in condition for alloward closed in accordance with the practice under E</li> </ol>   | action is non-final.<br>ace except for formal matters, pro   |  |  |  |  |  |
| Disposition of Claims  |  |  |  |  |  |  |
| <u> </u>   |  |  |  |  |  |  |
| 4) Claim(s) 1-43 is/are pending in the application.  |  |  |  |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.  5)⊠ Claim(s) <u>1-24</u> is/are allowed.   |  |  |  |  |  |  |
| 6)⊠ Claim(s) <u>1-24</u> is/are allowed. 6)⊠ Claim(s) <u>25-32 and 37-39</u> is/are rejected.  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  | ·  |  |  |  |  |  |
| ,  | oloonon requirement.   |  |  |  |  |  |
| Application Papers   |  |  |  |  |  |  |
| 9) The specification is objected to by the Examiner.   |  |  |  |  |  |  |
| 10)⊠ The drawing(s) filed on <u>21 November 2003</u> is/are: a)□ accepted or b)□ objected to by the Examiner.  |  |  |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |  |  |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |  |  |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |  |  |  |  |  |  |
| Priority under 35 U.S.C. § 119   |  |  |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of   | s have been received.<br>s have been received in Applicati<br>ity documents have been receive<br>ı (PCT Rule 17.2(a)).   | on No ed in this National Stage  |  |  |  |  |
| Attachment(s)  |  |  |  |  |  |  |
| 1) 🔯 Notice of References Cited (PTO-892) 4) 🔲 Interview Summary (PTO-413)   |  |  |  |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  | Paper No(s)/Mail Da  | ate<br>atent Application (PTO-152)   |  |  |  |  |
| <ul> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>   | 6) Other:  | atent Application (PTO-152)  |  |  |  |  |
|  | ·  |  |  |  |  |  |

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 25, 31 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schudel in view of Nezu.

Schudel (US Patent Number 4,089,587) discloses:

Regarding claim 25, a substrate (Figure 2, element 16) defining a first surface (i.e. right side of element 16); a reflective layer (Figure 2, element 20) coupled to the first surface of the substrate (i.e. right side of element 16); and a diffusion layer (Figure 2, element 18) coupled to the reflective layer (Figure 2, element 20) such that the reflective layer is positioned between the substrate (Figure 2, element 16) and the diffusion layer (Figure 2, element 18).

Schudel teaches the salient features of the present invention as explained above, except (regarding claim 25) a diffusion layer having a thickness greater than one one-thousandth of an inch (one mil); wherein at least one of the reflective layer and the diffusion layer includes a plurality of micro lenses; (regarding claim 31) a thickness of the diffusion layer being in the range of approximately two mils to approximately eight

Application/Control Number: 10/719,356

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Art Unit: 2851

mils; and (regarding claim 37) a combined thickness of the substrate, the reflective layer, and the diffusion layer being in the range of approximately eight mils to twenty mils.

Nezu (US Patent Number 5,456,967) discloses a diffusion layer having a thickness greater than one one-thousandth of an inch (column 6, lines 20-22); wherein at least one of the reflective layer (Figure 1, element 2) and the diffusion layer (Figure 1, element 1) includes a plurality of micro lenses (Figure 1, element 1a); a thickness of the diffusion layer being in the range of approximately two mils to approximately eight mils (column 6, lines 27-30); and a combined thickness of the substrate, the reflective layer, and the diffusion layer (column 6, lines 25-26) being in the range of approximately eight mils to twenty mils (column 6, lines 27-28).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the diffusion layer (with the combined thickness of the substrate and reflective layer) disclosed by Nezu in substitution of the diffusion layer form Schudel's invention for the purpose scattering the light beam, thereby increasing the half-value angle.

3. Claims 26-30 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schudel in view of Nezu as applied to claims 25, 31 and 37 above, and further in view of Saiia.

Schudel (US Patent Number 4,089,587) in combination with Nezu (US Patent Number 5,456,967) teaches the salient features of the present invention as explained above, except (regarding claim 26) a reflective layer including a first plurality of micro

Art Unit: 2851

lenses and the diffusion layer includes a second plurality of micro lenses; (regarding claim 27) the first plurality of micro lenses and the second plurality of micro lenses are substantially aligned; (regarding claim 28) the micro lenses are generally equally spaced apart; (regarding claim 29) the micro lenses are concave; (regarding claim 30) the micro lenses are convex; (regarding claim 32) the micro lenses are in the shape of semi-spheres.

Saiia (US Patent Number 2,968,219) discloses a reflective layer (Figure 1, element 2) including a first plurality of micro lenses (Figure 1, element 3) and the diffusion layer (Figure 1, element 5) including a second plurality of micro lenses (see the shape of element 5 on Figure 1); first plurality of micro lenses and the second plurality of micro lenses are substantially aligned (see elements 2 and 5 on Figure 2); the micro lenses are generally equally spaced apart (Figure 3, element 3); the micro lenses are concave/convex (i.e. element 3 has a concave part and a convex part); the micro lenses are in the shape of semi-spheres (column 4, lines 33-36).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the reflective and diffusion layer including a plurality of micro lenses disclosed by Saiia's invention, in substitution of the reflective and diffusion layer from Schudel's invention for the purpose of increasing the viewing angle beyond the sides of the screen and making the reflective surface of lenticular form the relative minute lenticles extending uniformly over the entire reflective surface, including an optimum angle of lateral vision without distortion of the picture.

Application/Control Number: 10/719,356 Page 5

Art Unit: 2851

4. Claims 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schudel in view of Nezu as applied to claims 25, 31 and 37 above, and further in view of Nishitani.

Schudel (US Patent Number 4,089,587) in combination with Nezu (US Patent Number 5,456,967) teaches the salient features of the present invention as explained above, except (regarding claims 38 and 39) a substrate is sufiently flexible to enable the projection screen to be wound around a roller during periods of non-use.

Nishitani (US Patent Number 5,127,722) discloses a substrate (Figure 1a, element 3) being sufficiently flexible to enable the projection screen (Figure 1a, element 1) to be wound around a roller (Figure 1a, element 5) during periods of non-use (column 2, lines 25-39).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to utilize the substrate being sufficiently flexible to enable the projection screen to be wound around a roller during periods of non-use, like the one disclosed by Nishitani, in substitution of the substrate from Schudel's invention, for the purpose of having a large screen comprising a flat surface and easy for carrying and storing.

## Allowable Subject Matter

5. Claims 1-24 are allowed.

Application/Control Number: 10/719,356 Page 6

Art Unit: 2851

6. Claims 33-36 and 40-43 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Response to Arguments

7. Applicant's arguments filed on 07/20/2005 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Application/Control Number: 10/719,356 Page 7

Art Unit: 2851

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Magda Cruz whose telephone number is (571) 272-

2114. The examiner can normally be reached on Monday through Thursday 8:00-5:30

PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

William Perkey Primary Examiner

gr Blerken

Magda Cruz Patent Examiner October 3, 2005